

Author index

Baark, E., The value of technology: A survey of the Chinese theoretical debate and its policy implications 17 (1988) 269

Bessant, J. and B. Haywood, Islands, archipelagoes and continents: Progress on the road to computer-integrated manufacturing 17 (1988) 349

Bodewitz, H., G. de Vries and P. Weeder, Towards a cognitive model for technology-oriented R&D processes 17 (1988) 213

Cadena, G., *see* Waissbluth 17 (1988) 341

Cambrosio, A., *see* Mackenzie 17 (1988) 155

Collins, P. and S. Wyatt, Citations in patents to the basic research literature 17 (1988) 65

Courtial, J.-P. and J.C. Remy, Towards the "cognitive management" of a research institute 17 (1988) 225

Cramer, J., Options for mission-orientation in ecology 17 (1988) 75

de Vries, G., *see* Bodewitz 17 (1988) 213

Florida, R.L. and M. Kenney, Venture capital-financed innovation and technological change in the USA 17 (1988) 119

Fölster, S., The "incentive subsidy" for government support of private R&D 17 (1988) 105

Frame, J.D. and F. Narin, The national self-preoccupation of American scientists: An empirical view 17 (1988) 203

Gates, W., Federally supported commercial technology development: Solar thermal technologies 1970-1982 17 (1988) 27

Hare, P. and G. Wyatt, Modelling the determination of research output in British universities 17 (1988) 315

Haywood, B., *see* Bessant 17 (1988) 349

Holemans, B. and L. Sleuwaegen, Innovation expenditures and the role of government in Belgium 17 (1988) 375

Hughes, K., The interpretation and measurement of R&D intensity - A note 17 (1988) 301

Jakes, P.J., Research evaluation in the U.S. Forest Service: Opinions of research managers 17 (1988) 283

Johnes, G., Determinants of research output in economics departments in British universities 17 (1988) 171

Keating, P., *see* Mackenzie 17 (1988) 155

Keck, O., A theory of white elephants: Asymmetric information in government support for technology 17 (1988) 187

Kenney, M., *see* Florida 17 (1988) 119

Lachke, A.H., J.V. Rajan, M.C. Srinivasan and S.A. Tambe, Biotechnology development in India: Some policy issues 17 (1988) 235

Lacroix, R. and F. Martin, Government and the decentralization of R&D 17 (1988) 363

Langowitz, N.S., An exploration of production problems in the initial commercial manufacture of products 17 (1988) 43

Leonard-Barton, D., Implementation as mutual adaptation of technology and organization 17 (1988) 251

Mackenzie, M., A. Cambrosio and P. Keating, The commercial application of a scientific discovery: The case of the hybridoma technique 17 (1988) 155

Martin, F., *see* Lacroix 17 (1988) 363
 Meyer, M., *see* Utterback 17 (1988) 15
 Moravcsik, M.J., The limits of science and the scientific method 17 (1988) 293
 Narin, F. and R.P. Rozek, Bibliometric analysis of U.S. pharmaceutical industry research performance 17 (1988) 139
 Narin, F., *see* Frame 17 (1988) 203
 Pavitt, K., *see* Robson 17 (1988) 1
 Rajan, J.V., *see* Lachke 17 (1988) 235
 Reitberger, G., *see* Utterback 17 (1988) 15
 Remy, J.C., *see* Courtial 17 (1988) 225
 Roberts, E., *see* Utterback 17 (1988) 15
 Robson, M., J. Townsend and K. Pavitt, Sectoral patterns of production and use of innovations in the UK: 1945-1983 17 (1988) 1
 Rozek, R.P., *see* Narin 17 (1988) 139
 Saviotti, P.P., Information, variety and entropy in technoeconomic development 17 (1988) 89
 Schimank, U., The contribution of university research to the technological innovation of the German economy: Societal autodynamic and political guidance 17 (1988) 329
 Sleuwaegen, L., *see* Holemans 17 (1988) 375
 Solleiro, J.L., *see* Waissbluth 17 (1988) 341
 Srinivasan, M.C., *see* Lachke 17 (1988) 235
 Tambe, S.A., *see* Lachke 17 (1988) 235
 Townsend, J., *see* Robson 17 (1988) 1
 Utterback, J.M., M. Meyer, E. Roberts and G. Reitberger, Technology and industrial innovation in Sweden: A study of technology-based firms formed between 1965 and 1980 17 (1988) 15
 Voss, C.A., Implementation: A key issue in manufacturing technology: The need for a field of study 17 (1988) 55
 Waissbluth, M., G. Cadena and J.L. Solleiro, Linking university and industry: An organizational experience in Mexico 17 (1988) 341
 Weeder, P., *see* Bodewitz 17 (1988) 213
 Wyatt, G., *see* Hare 17 (1988) 315
 Wyatt, S., *see* Collins 17 (1988) 65

Subject index

Government

Federally supported commercial technology development: Solar thermal technologies 1970-1982, William Gates	27
Options for mission-orientation in ecology, Jacqueline Cramer	75
The "incentive subsidy" for government support of private R&D, Stefan Fölster	105
Bibliometric analysis of U.S. pharmaceutical industry research performance, Francis Narin and Richard P. Rozek	139
A theory of white elephants: Asymmetric information in government support for technology, Otto Keck	187
Biotechnology development in India: Some policy issues, A.H. Lachke, J.V. Rajan, M.C. Srinivasan and S.A. Tambe	235
The value of technology: A survey of the Chinese theoretical debate and its policy implications, Erik Baark	269
The limits of science and the scientific method, Michael J. Moravcsik	293
Modelling the determination of research output in British universities, Paul Hare and Geoffrey Wyatt	315
Government and the decentralization of R&D, Robert Lacroix and Fernand Martin	363
Innovation expenditures and the role of government in Belgium, Benni Holemans and Leo Sleuwaegen	375

Industry, agriculture and services

Sectoral patterns of production and use of innovations in the UK: 1945-1983, M. Robson, J. Townsend and K. Pavitt	1
Technology and industrial innovation in Sweden: A study of technology-based firms formed between 1965 and 1980, James M. Utterback, Mark Meyer, Edward Roberts and Goren Reitberger	15
Federally supported commercial technology development: Solar thermal technologies 1970-1982, William Gates	27
An exploration of production problems in the initial commercial manufacture of products, Nan S. Langowitz	43
Implementation: A key issue in manufacturing technology: The need for a field of study, C.A. Voss	55
Information, variety and entropy in technoeconomic development, P.P. Saviotti	89
The "incentive subsidy" for government support of private R&D, Stefan Fölster	105
Venture capital-financed innovation and technological change in the USA, Richard L. Florida and Martin Kenney	119
Bibliometric analysis of U.S. pharmaceutical industry research performance, Francis Narin and Richard P. Rozek	139
The commercial application of a scientific discovery: The case of the hybridoma technique, Michael Mackenzie, Alberto Cambrosio and Peter Keating	155
A theory of white elephants: Asymmetric information in government support for technology, Otto Keck	187

Towards a cognitive model for technology-oriented R&D processes, Henk Bodewitz, Gerard de Vries and Pieter Weeder	213
Towards the "cognitive management" of a research institute, J.-P. Courtial and J.C. Remy	225
Biotechnology development in India: Some policy issues, A.H. Lachke, J.V. Rajan, M.C. Srinivasan and S.A. Tambe	235
Implementation as mutual adaptation of technology and organization, Dorothy Leonard-Barton	251
The value of technology: A survey of the Chinese theoretical debate and its policy implications, Erik Baark	269
Research evaluation in the U.S. Forest Service: Opinions of research managers, Pamela J. Jakes	283
The interpretation and measurement of R&D intensity - A note, Kirsty Hughes	301
The contribution of university research to the technological innovation of the German economy: Societal auto-dynamic and political guidance, Uwe Schimank	329
Linking university and industry: An organizational experience in Mexico, Mario Waissbluth, Gustavo Cadena and Jose Luis Solleiro	341
Islands, archipelagoes and continents: Progress on the road to computer-integrated manufacturing, John Bessant and Bill Haywood	349
Government and the decentralization of R&D, Robert Lacroix and Fernand Martin	363
Innovation expenditures and the role of government in Belgium, Benni Holemans and Leo Sleuwaegen	375

Universities and basic research

Citations in patents to the basic research literature, Peter Collins and Suzanne Wyatt	65
Bibliometric analysis of U.S. pharmaceutical industry research performance, Francis Narin and Richard P. Rozek	139
The commercial application of a scientific discovery: The case of the hybridoma technique, Michael Mackenzie, Alberto Cambrosio and Peter Keating	155
Determinants of research output in economics departments in British universities, Geraint Johnes	171
The national self-preoccupation of American scientists: An empirical view, J. Davidson Frame and Francis Narin	203
Towards the "cognitive management" of a research institute, J.-P. Courtial and J.C. Remy	225
The limits of science and the scientific method, Michael J. Moravcsik	293
Modelling the determination of research output in British universities, Paul Hare and Geoffrey Wyatt	315
The contribution of university research to the technological innovation of the German economy: Societal auto-dynamic and political guidance, Uwe Schimank	329
Linking university and industry: An organizational experience in Mexico, Mario Waissbluth, Gustavo Cadena and Jose Luis Solleiro	341

Assessment, planning and management

Federally supported commercial technology development: Solar thermal technologies 1970-1982, William Gates	27
An exploration of production problems in the initial commercial manufacture of products, Nan S. Langowitz	43
Implementation: A key issue in manufacturing technology: The need for a field of study, C.A. Voss	55
Citations in patents to the basic research literature, Peter Collins and Suzanne Wyatt	65
Options for mission-orientation in ecology, Jacqueline Cramer	75

The "incentive subsidy" for government support of private R&D, Stefan Fölster	105
Bibliometric analysis of U.S. pharmaceutical industry research performance, Francis Narin and Richard P. Rozek	139
Determinants of research output in economics departments in British universities, Geraint Johnes	171
A theory of white elephants: Asymmetric information in government support for technology, Otto Keck	187
The national self-preoccupation of American scientists: An empirical view, J. Davidson Frame and Francis Narin	203
Towards a cognitive model for technology-oriented R&D processes, Henk Bodewitz, Gerard de Vries and Pieter Weeder	213
Towards the "cognitive management" of a research institute, J.-P. Courtial and J.C. Remy	225
Implementation as mutual adaptation of technology and organization, Dorothy Leonard-Barton	251
Research evaluation in the U.S. Forest Service: Opinions of research managers, Pamela J. Jakes	283
The limits of science and the scientific method, Michael J. Moravcsik	293
Islands, archipelagoes and continents: Progress on the road to computer-integrated manufacturing, John Bessant and Bill Haywood	349

Countries

International comparisons

Citations in patents to the basic research literature, Peter Collins and Suzanne Wyatt	65
The commercial application of a scientific discovery: The case of the hybridoma technique, Michael Mackenzie, Alberto Cambrosio and Peter Keating	155

Belgium

Innovation expenditures and the role of government in Belgium, Benni Holemans and Leo Sleurwaege	375
--	-----

Canada

Government and the decentralization of R&D, Robert Lacroix and Fernand Martin	363
---	-----

China

The value of technology: A survey of the Chinese theoretical debate and its policy implications, Erik Baark	269
---	-----

France

Towards the "cognitive management" of a research institute, J.-P. Courtial and J.C. Remy	225
--	-----

Federal Republic of Germany

A theory of white elephants: Asymmetric information in government support for technology, Otto Keck	187
The contribution of university research to the technological innovation of the German economy: Societal auto-dynamic and political guidance, Uwe Schimank	329

India

Biotechnology development in India: Some policy issues, A.H. Lachke, J.V. Rajan, M.C. Srinivasan and S.A. Tambe 235

Mexico

Linking university and industry: An organizational experience in Mexico, Mario Waissbluth, Gustavo Cadena and Jose Luis Solleiro 341

The Netherlands

Options for mission-orientation in ecology, Jacqueline Cramer 75
 Towards a cognitive model for technology-oriented R&D processes, Henk Bodewitz, Gerard de Vries and Pieter Weeder 213

Sweden

Technology and industrial innovation in Sweden: A study of technology-based firms formed between 1965 and 1980, James M. Utterback, Marc Meyer, Edward Roberts and Goren Reitberger 15
 The "incentive subsidy" for government support of private R&D, Stefan Fölster 105

U.K.

Sectoral patterns of production and use of innovations in the UK: 1945–1983, M. Robson, J. Townsend and K. Pavitt 1
 Implementation: A key issue in manufacturing technology: The need for a field of study, C.A. Voss 55
 Determinants of research output in economics departments in British universities, Geraint Johnes 171
 The interpretation and measurement of R&D intensity – A note, Kirsty Hughes 301
 Modelling the determination of research output in British universities, Paul Hare and Geoffrey Wyatt 315
 Islands, archipelagoes and continents: Progress on the road to computer-integrated manufacturing, John Bessant and Bill Haywood 349

U.S.A.

Federally supported commercial technology development: Solar thermal technologies 1970–1982, William Gates 27
 An exploration of production problems in the initial commercial manufacture of products, Nan S. Langowitz 43
 Venture capital-financed innovation and technological change in the USA, Richard L. Florida and Martin Kenney 119
 Bibliometric analysis of U.S. pharmaceutical industry research performance, Francis Narin and Richard P. Rozek 139
 The national self-preoccupation of American scientists: An empirical view, J. Davidson Frame and Francis Narin 203
 Implementation as mutual adaptation of technology and organization, Dorothy Leonard-Barton 251
 Research evaluation in the U.S. Forest Service: Opinions of research managers, Pamela J. Jakes 283



